PATENT COOPERATION TREATY

To: JANELL T. CLEVELAND NEEDLE & ROSENBERG, P.C. SUITE 1000	PCT REC'D 3 1 JUL 2000 WRITTEN OPINION OF THE				
NEEDLE & ROSENBERG, P.C. SUITE 1000	WRITTEN OPINION OF THE				
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999 PEACHTREE STREET ATLANTA, GA 30309-3915 INTER	NATIONAL SEARCHING AUTHORITY				
	(PCT Rule 43bis.1)				
Date of ma (day/mont)					
Applicant's or agent's file reference FOR FUR	THER ACTION				
21085.0072P1	See paragraph 2 below				
International application No. International filing date (day/month/)	ear) Priority date (day/month/year)				
PCT/US05/07586 09 March 2005 (09.03.2005)	09 March 2004 (09.03.2004)				
International Patent Classification (IPC) or both national classification and IPC					
IPC: Please See Continuation Sheet USPC: 424/677;514/886					
Applicant					
THE UAB RESEARCH FOUNDATION					
1. This opinion contains indications relating to the following items:					
Box No. I Basis of the opinion					
Box No. II Priority					
Box No. III Non-establishment of opinion with regard to novelt	y, inventive step and industrial applicability				
Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with reapplicability; citations and explanations supporting					
Box No. VI Certain documents cited					
Box No. VII Certain defects in the international application	1				
Box No. VIII Certain observations on the international application					
2. FURTHER ACTION					
If a demand for international preliminary examination is made, this opinio International Preliminary Examining Authority ("IPEA") except that this Authority other than this one to be the IPEA and the chosen IPEA has noti that written opinions of this International Searching Authority will not be so of	does not apply where the applicant chooses an field the International Bureau under Rule 66.1bis(b)				
If this opinion is, as provided above, considered to be a written opinion of IPEA a written reply together, where appropriate, with amendments, before of Form PCT/ISA/220 or before the expiration of 22 months from the priority For further options, see Form PCT/ISA/220.	the expiration of 3 months from the date of mailing				
3. For further details, see notes to Form PCT/ISA/220.					
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	nion Authorized officer John Pak Sull of Pake Sull of Pak				

Form PCT/ISA/237 (cover sheet) (April 2005)

I	International application No.
	PCT/US05/07586

INTERCATION DELICATION DELICATION DE LA CONTRACTION DEL CONTRACTION DE LA CONTRACTIO
Box No. I Basis of this opinion
Allehad on the bosis of
1. With regard to the language, this opinion has been established on the basis of:
the international application in the language in which it was filed
a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
on paper
in electronic form
c. time of filing/furnishing
contained in the international application as filed.
filed together with the international application in electronic form.
furnished subsequently to this Authority for the purposes of search.
In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

Form PCT TSA 237(Box No. I) (April 2005)

International application No.	
PCT/US05/07586	

Box No. IV Lack of unity of invention		
In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit: paid additional fees paid additional fees under protest and, where applicable, the protest fee paid additional fees under protest but the applicable protest fee was not paid not paid additional fees This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees. 3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is complied with not complied with for the following reasons: See the lack of unity section of the International Search Report(Form PCT/ISA/210)		
4. Consequently, this opinion has been established in respect of the following parts of the international application: all parts. the parts relating to claims Nos. 1-9 (to the extent they read on LiCl), 10, 13 (to the extent it reads on LiCl), 15-16 (to the extent they read on LiCl) and 17		

Form PCT. ISA/237 (Box No. IV) (April 2005)

International application No. PCT/US05/07586

D NI X7	Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial
ROX MO' A	Reasoned statement under Rule 45 bis.1(a)(1)
	applicability; citations and explanations supporting such statement
	applicability, citations and arbitimestry

1. Statement

YES
NO
YES
NO
YES
NO

2. Citations and explanations:

Claims 1-10, 13 and 15-17 meet the criteria set out in PCT Article 33(4), and thus find industrial applicability because the subject matter claimed can be used for reducing the severity of inflammation in a subject.

Claims 1-10, 13 and 15-17 lack novelty under PCT Article 33(2) as being anticipated by WO 98/17288.

WO 98/17288 explicitly discloses administering lithium chloride over a period of 2-10 weeks to a human subject to combat human papilloma virus infection (see claims 5, 7, 9-11).

All of applicant's claim language are so imprecisely presented that they are all deemed to be anticipated by the cited prior art disclosure. Claims 2-3 require a 24 hour or 2 hour period before or after the subject is contacted with an inflammatory agent. This feature is most certainly met by any human subject, who is under constant exposure to various bacterial, viral and other inflammatory agents from ordinary environmental conditions. Thus, the method and subject in WO 98/17288, who has been treated with lithium chloride for 2-10 weeks, meet applicant's claims 2-3. Similarly, the 2 hour period before or after inflammation begins in claim 4 is also necessarily encompassed by the method and subject of WO 98/17288. Claims 5-9 recite various types of infections, but the subject of WO 98/17288 meets applicant's "subject with inflammation or at risk for inflammation" language. Claim 13 requires administration of LiCl prior to surgery, but since no time period prior to surgery is required, the method and subject in WO 98/17288 meet claim 13. Claims -15-16 recite specific mechanism by which LiCl inhibits GSK-3 activity, but since the subject in WO 98/17288 has been administered the same exact LiCl for 2-10 weeks, the same effect would necessarily be obtained in that subject.

For these reasons, claims 1-10, 13 and 15-17 lack novelty under PCT Article 33(2) as being anticipated by WO 98/17288.

International application No. PCT/US05/07586

	Supplemental Box In case the space in any of the preceding boxes is not sufficient.	_
	Continuation of IPC: A61K 33/14(2006.01);A61P 29/00(2006.01) A61P 31/00(2006.01),31/04(2006.01),31/20(2006.01)	
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